

Name: _____

p1029: Box multiplication of linear binomials (v4)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3	
2x	$12x^2$	6x	$12x^2 + 6x + 24x + 12$
4	24x	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(9x + 4)$ and $(8x + 7)$.

*	9x	4	
8x	$72x^2$	32x	
7	63x	28	

ANSWER: $72x^2 + 95x + 28$

Question 2

Use the box method to multiply $(8x - 5)$ and $(4x + 6)$.

*	8x	-5
4x	$32x^2$	-20x
6	48x	-30

ANSWER: $32x^2 + 28x - 30$

Question 3

Use the box method to multiply $(7x - 9)$ and $(-3x - 2)$.

*	7x	-9
-3x	- $21x^2$	27x
-2	-14x	18

ANSWER: $-21x^2 + 13x + 18$